

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION DR-575

Effective Date: November 1, 2012
Reevaluation Date: **November 2015**

The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**.

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Series 20 EV Glazed Steel Outswing Door with Exit Bar, Non-impact Resistant, manufactured by

Plyco Corporation
500 Industrial Blvd.
Elkhart Lake, WI 53020
Telephone: (920) 876-3611

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 20 EV Glazed Steel Outswing Door with Exit Bar; (X)	Class LC-PG40 40x85-LW-SHD Class LW SHD-LC40 40x85	± 40

Component Dimensions:

System	Overall Size	Panel Size	Daylight Opening Size
1	39 $\frac{3}{4}$ " x 85 $\frac{3}{8}$ "	35 $\frac{3}{4}$ " x 83 $\frac{1}{4}$ "	20 $\frac{3}{4}$ " x 58 $\frac{3}{4}$ "

Components and Hardware:

System	Component	Quantity	Attachment Method
1	4" Stainless Steel Fixed Pin Hinges	3	Secured to the door panel with four (4) No. 10 x $\frac{1}{2}$ " screws. Secured to the door frame jamb with three (3) No. 10 x $\frac{1}{2}$ " screws and one (1) No. 10 x 3 $\frac{1}{2}$ " screws.
	Von Duprin 22 Series Rim Bar device with 299 strike	1	Four (4) 10 x 1" PH machine screws through lock side of the door. The hinge side of the panic device is secured with two (2) No. 10 x $\frac{3}{4}$ " machine screws. The strike is secured to the door frame with three (3) No. 10 x $\frac{3}{4}$ " FH machine screws.

Product Identification (Certification Agency Label on Door):

System		
1	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Plyco Corporation dba Modern Door Company
	Product Name	Series 20 EV Glazed Outswing Steel Door with Exit Bar
	Test Standards	AAMA/WDMA/CSA 101/IS2/A440-08 AAMA/WDMA/CSA 101/IS2/A440-05

Impact Resistance:

Impact Resistant	Requirement
No	Impact protective system required when product is installed in areas where windborne debris protection is required

Installation:

System		
1	Type of Installation	Door Frame
	Wall Framing	Wood (Spruce-Pine-Fir); Concrete (minimum compressive strength of 2,700 psi; Masonry (ASTM C-90) and Steel (minimum yield strength of 33 ksi, minimum wall thickness 18 gauge)
	Fasteners	Wood: No. 10 wood screw; Concrete and Masonry: $\frac{3}{16}$ " diameter ITW Tapcon; Steel: #10-16 Tek screw
	Fastener Embedment	Wood: Minimum of 1 $\frac{1}{2}$ inches into the wall framing; Concrete and Masonry: Minimum of 1 $\frac{1}{4}$ inches into the wall framing; and Steel: Achieve three (3) threads penetration beyond the metal structure.
	Fastener Location/Spacing	The doors shall be installed in strict accordance with this product evaluation report and Plyco Corporation drawings PC0013, sheets 1 – 5 of 5, dated March 19, 2012, signed and sealed by Alexis Spyrou, P.E. on October 3, 2012.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) the International Building Code (IBC), and the Texas Revisions.